

J. Roiley.

1636 p #20

PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/846,606D

DATE: 01/05/99  
TIME: 11:44:13

INPUT SET: S30574.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

ENTERED

SEQUENCE LISTING

1  
2  
3 (1) General Information:  
4 (i) APPLICANT: Ravnikar et al.  
5 (ii) TITLE OF INVENTION: Thioredoxin/Heterologous Protein Bacterial Expression  
6 (iii) NUMBER OF SEQUENCES: 14  
7 (iv) CORRESPONDENCE ADDRESS:  
8 (A) ADDRESSEE: Schering-Plough Corporation  
9 (B) STREET: 2000 Galloping Hill Road  
10 (C) CITY: Kenilworth  
11 (D) STATE: New Jersey  
12 (E) COUNTRY: U.S.A.  
13 (F) ZIP : 07033-0530  
14 (v) COMPUTER READABLE FORM:  
15 (A) MEDIUM TYPE: diskette  
16 (B) COMPUTER: Power Macintosh 7600/120  
17 (C) OPERATING SYSTEM: Macintosh 7.5.3  
18 (D) SOFTWARE: Microsoft Word 6.0  
19 (vi) CURRENT APPLICATION DATA:  
20 (A) APPLICATION NUMBER: US 08/846,606  
21 (B) FILING DATE: 30-APR-1997  
22 (vii) PRIOR APPLICATION DATA:  
23 (A) APPLICATION NUMBER: US 60/011,606  
24 (B) FILING DATE: 30-APR-1996  
25 (viii) ATTORNEY/AGENT INFORMATION:  
26 (A) NAME: Thampoe, Immac J.  
27 (B) REGISTRATION NUMBER: 36,322  
28 (C) REFERENCE DOCKET NUMBER: JB0600Q  
29  
30 (2) INFORMATION FOR SEQ ID NO:1:  
31 (i) SEQUENCE CHARACTERISTICS:  
32 (A) LENGTH: 30 bases  
33 (B) TYPE: nucleic acid  
34 (C) STRANDEDNESS: single  
35 (D) TOPOLOGY: linear  
36 (ii) MOLECULE TYPE: DNA  
37 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
38  
39 CCTGTGGAGT TACATATGAG CGATAAAATT 30  
40  
41 (2) INFORMATION FOR SEQ ID NO:2:  
42 (i) SEQUENCE CHARACTERISTICS:  
43 (A) LENGTH: 47 bases  
44 (B) TYPE: nucleic acid  
45 (C) STRANDEDNESS: single  
46 (D) TOPOLOGY: linear

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/846,606DDATE: 01/05/99  
TIME: 11:44:14

INPUT SET: S30574.raw

47 (ii) MOLECULE TYPE: DNA  
48 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
49  
50 GCACCCAACA TGCAAGGATC CTTACGCCAG ATTAGCATCG AGGAACT 47  
51  
52  
53  
54 (2) INFORMATION FOR SEQ ID NO:3:  
55 (i) SEQUENCE CHARACTERISTICS:  
56 (A) LENGTH: 336 base pairs  
57 (B) TYPE: nucleic acid  
58 (C) STRANDEDNESS: single  
59 (D) TOPOLOGY: linear  
60 (ii) MOLECULE TYPE: DNA  
61 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
62  
63 ATGAGCGATA AAATTATTCA CCTGACTGAC GACAGTTTTG ACACGGATGT 50  
64 ACTCAAAGCG GACGGGGCGA TCCTCGTCGA TTTCTGGGCA GAGTGGTGCG 100  
65 GTCCGTGCAA AATGATCGCC CCGATTCTGG ATGAAATCGC TGACGAATAT 150  
66 CAGGGCAAAC TGACCGTTGC AAAACTGAAC ATCGATCAAA ACCCTGGCAC 200  
67 TGCGCCGAAA TATGGCATCC GTGGTATCCC GACTCTGCTG CTGTTCAAAA 250  
68 ACGGTGAAGT GCGGCAACC AAAGTGGGTG CACTGTCTAA AGGTCAAGTTG 300  
69 AAAGAGTTCC TCGATGCTAA TCTGGCGTAA GGATCC 336  
70  
71 (2) INFORMATION FOR SEQ ID NO:4:  
72 (i) SEQUENCE CHARACTERISTICS:  
73 (A) LENGTH: 336 base pairs  
74 (B) TYPE: nucleic acid  
75 (C) STRANDEDNESS: single  
76 (D) TOPOLOGY: linear  
77 (ii) MOLECULE TYPE: cDNA  
78 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
79  
80 ATGAGCGATA AAATTATTCA CCTGACTGAC GACAGTTTTG ACACGGATGT 50  
81 ACTCAAAGCG GACGGGGCGA TCCTCGTCGA TTTCTGGGCA GAGTGGTGCG 100  
82 GTCCGTGCAA AATGATCGCC CCGATTCTGG ATGAAATCGC TGACGAATAT 150  
83 CAGGGCAAAC TGACCGTTGC AAAACTGAAC ATCGATCAAA ACCCTGGCAC 200  
84 TGCGCCGAAA TATGGCATCC GTGGTATCCC GACTCTGCTG CTGTTCAAAA 250  
85 ACGGTGAAGT GCGGCAACC AAAGTGGGTG CACTGTCTAA AGGTCAAGTTG 300  
86 AAAGAGTTCC TCGAGGCTAA TCTGGCGTAA GGATCC 336  
87  
88 (2) INFORMATION FOR SEQ ID NO:5:  
89 (i) SEQUENCE CHARACTERISTICS:  
90 (A) LENGTH: 81 bases pairs  
91 (B) TYPE: nucleic acid  
92 (C) STRANDEDNESS: single  
93 (D) TOPOLOGY: linear  
94 (ii) MOLECULE TYPE: cDNA  
95 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
96  
97 GATAATATTC TGGCTGGTTC TGTTCTGGT GATGACGATG ACAAGGGTCC 50  
98 TGTTCCGCCG TCTACCGCTC TGCCTGAGCT C 81  
99

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/846,606DDATE: 01/05/99  
TIME: 11:44:15

INPUT SET: S30574.raw

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## (2) INFORMATION FOR SEQ ID NO:6:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 27 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

109

110

111 Asp Asn Asn Leu Ala Gly Ser Gly Ser Gly Asp Asp Asp Asp Lys

112 1 5 10 15

113

114 Gly Pro Val Pro Pro Ser Thr Ala Leu Arg Glu Leu

115 20 25

116

117

## 118 (2) INFORMATION FOR SEQ ID NO:7:

## 119 (i) SEQUENCE CHARACTERISTICS:

120 (A) LENGTH: 52 bases

121 (B) TYPE: nucleic acid

122 (C) STRANDEDNESS: single

123 (D) TOPOLOGY: linear

124 (ii) MOLECULE TYPE: DNA

125 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

126

127 GAAGGAGGCT GATTAAATGG GTCCGGTTCC GCCGTCTACC GCTCTGGAGC 50

128 TC 52

129

## 130 (2) INFORMATION FOR SEQ ID NO:8:

## 131 (i) SEQUENCE CHARACTERISTICS:

132 (A) LENGTH: 18 bases

133 (B) TYPE: nucleic acid

134 (C) STRANDEDNESS: single

135 (D) TOPOLOGY: linear

136 (ii) MOLECULE TYPE: DNA

137 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

138

139 AAGGAGGCTG ATTAAATG 18

140

## 141 (2) INFORMATION FOR SEQ ID NO:9:

## 142 (i) SEQUENCE CHARACTERISTICS:

143 (A) LENGTH: 17 bases

144 (B) TYPE: nucleic acid

145 (C) STRANDEDNESS: single

146 (D) TOPOLOGY: linear

147 (ii) MOLECULE TYPE: DNA

148 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

149

150 AAGGAGGCTG ATTAATG 17

151

152

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/846,606DDATE: 01/05/99  
TIME: 11:44:16

INPUT SET: S30574.raw

153 (2) INFORMATION FOR SEQ ID NO:10:  
154 (i) SEQUENCE CHARACTERISTICS:  
155 (A) LENGTH: 14 bases  
156 (B) TYPE: nucleic acid  
157 (C) STRANDEDNESS: single  
158 (D) TOPOLOGY: linear  
159 (ii) MOLECULE TYPE: DNA  
160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  
161  
162 AAGGAGGTTT AATG 14  
163  
164 (2) INFORMATION FOR SEQ ID NO:11:  
165 (i) SEQUENCE CHARACTERISTICS:  
166 (A) LENGTH: 6 amino acids  
167 (B) TYPE: amino acid  
168 (D) TOPOLOGY: linear  
169 (ii) MOLECULE TYPE: peptide  
170 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:  
171  
172 Leu Asp Ala Asn Leu Ala  
173 1 5  
174 (2) INFORMATION FOR SEQ ID NO:12:  
175 (i) SEQUENCE CHARACTERISTICS:  
176 (A) LENGTH: 21 bases  
177 (B) TYPE: nucleic acid  
178 (C) STRANDEDNESS: single  
179 (D) TOPOLOGY: linear  
180 (ii) MOLECULE TYPE: DNA  
181 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:  
182  
183 CTCGATGCTA ATCTGGCGTA A 21  
184  
185 (2) INFORMATION FOR SEQ ID NO:13:  
186 (i) SEQUENCE CHARACTERISTICS:  
187 (A) LENGTH: 21 bases  
188 (B) TYPE: nucleic acid  
189 (C) STRANDEDNESS: single  
190 (D) TOPOLOGY: linear  
191 (ii) MOLECULE TYPE: DNA  
192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:  
193  
194 CTCGAGGCTA ATCTGGCGTA A 21  
195  
196 (2) INFORMATION FOR SEQ ID NO:14:  
197 (i) SEQUENCE CHARACTERISTICS:  
198 (A) LENGTH: 6 amino acids  
199 (B) TYPE: amino acid  
200 (D) TOPOLOGY: linear  
201 (ii) MOLECULE TYPE: peptide  
202 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:  
203  
204 Leu Glu Ala Asn Leu Ala  
205 1 5

PAGE: 5

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION US/08/846,606D**

DATE: 01/05/99  
TIME: 11:44:17

*INPUT SET: S30574.raw*

206  
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209 11  
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PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/846,606D**

DATE: 01/05/99  
TIME: 11:44:17

***INPUT SET: S30574.raw***

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Original Text